

Abstract of the Disclosure

A non-oxide powder of which at least about 40% by mass is comprised of a plurality of tightly agglomerated compositions, each of the tightly agglomerated compositions comprising a plurality of primary particles agglomerated together. Suitable materials for the primary particles include metals, intermetallics, ceramics, MMCs, and non-metals. An encapsulation and scavenging process is used to create the agglomerated compositions wherein at least some of the agglomerated compositions are encapsulated in a secondary material such as a salt or a polymer.